

The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK
GOVERNOR

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SECRETARY

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COMMISSIONER

Omar Gonzalez-Pagan, ADA

Suffolk County District Attorney's Office
By e-mail

March 9, 2011

Re: Comm. v. [REDACTED] State Lab no. [REDACTED]

ADA Gonzalez-Pagan,

Please find enclosed a discovery packet for the case noted above. The material is collated in the following manner:

- 1) the chemist's c.v.'s
- 2) the drug receipt to the Boston Police
- 3) inventory control card for the submission
- 4) the bench notes; the drug powder analysis form,
- 5) the data from the Gas Chromatography/ Mass Spectrometry (GC/MS) run

I was the custodial chemist for the submission, performing the preliminary analysis. Kate Corbett performed the confirmatory analysis by gas chromatography/mass spectrometry (gc/ms).

If you need further clarification of this material, please call me directly at (617) 983-6627.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael Lawler".

Michael Lawler
Senior Chemist

Cc: Charles Salemi, Kate Corbett

Curriculum Vitae

Michael Lawler

Education:

University of Virginia, Charlottesville, Va. Bachelor of Arts in English, 1975

Harvard University, Cambridge, Ma. Master of Arts in biology, 1995

Experience:

1990-present currently Chemist III, Mass. Dept. of Public Health, Drug Lab analyst determining the identity of unknown substances and providing expert testimony in the Courts. Conduct special testing for poisons within drug exhibits.

2005-present lecturer in chemistry, Curry College, Milton, Ma.

1988-1990 New England Newborn Screening (NENS) Biochemist conducting pilot studies and validation trials of new newborn screening tests. Investigator and co-author of papers noted below. Introduced screening test for Biotinidase Deficiency. Liaison with interstate collaborators in national studies.

1983-1988 Supervised NENS urine screening lab for metabolic disorders. Conducted research in collaboration with Children's Hospital (Boston) detecting neuroblastoma, a cancer of early childhood. Conducted reference testing for rare metabolic disorders for an international audience.

1982-1983 NENS hypothyroid assay technologist with Tuft's University

1979-1981 Mass. Bay Community College, staff technologist preparing materials for the laboratory technician program, which included reagents, apparatus and maintaining stock cultures of human pathogens.

Additional education and special training

Drug Analysis, completed six week training course by senior staff within the Department of Public Health Drug Analysis Laboratory

National Laboratory Network Training Program course as Expert Witness

Qualified as an expert witness in the Massachusetts Courts and the U.S. District Court
CDC course in cell culture

CDC course in antibiotic resistance

CDC course in public health response to bioterrorism

U.S. Army course in biologic warfare and terrorism

Journal Publications

Screening, 1992, 1:34-37; Lawler,M., Frederick,S., Rodriguez-Anza, S., Wolf,B., Levy,H., *Newborn Screening for Biotinidase Deficiency, Pilot Study and Follow-up of Identified Cases*

Genetic Screening, 1990, 11-18, Mitchell,M., Lawler,M., Walraven,C., Hermos,R., *To Screen or Not to Screen for Congenital Hyperplasia: Is that the Question?*

The Journal of Pediatrics, 116: 78-83, Secor-McVoy,J., Lawler,M., Schmidt, M., Ebers,D., Hart,P., Pettit,D., Blitzer,M., Wolf,B., *Partial Biotinidase Deficiency: Clinical and Biochemical Features*

Professional Affiliations

Northeastern Association of Forensic Scientists (NEAFS) since 2005

Awards

Theobald Smith Education Grant for graduate studies

Curriculum Vitae

Kate A. Corbett

Education

Bachelor of Science Degree, CHEMISTRY May 2003

MERRIMACK COLLEGE

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

Employment

Chemist II State Laboratory Institute (March 2008-Present)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance and trafficking substances to determine violation of the Massachusetts drug laws
- Responsible for the identification of pharmaceuticals to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation, microscopes and balances for forensic drug analysis

Chemist I State Laboratory Institute (2005-March 2008)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight-week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2005

Research Associate (September 2003 - August 2005)

SENSOR TECHNOLOGIES, INC - Shrewsbury, MA

- Prepared chemistries used in making sensor beads
- Generated and examined sensors employing fluorescence spectroscopy
- Performed protein, dye and sugar assays using UV/VIS spectrophotometry
- Carried out titrations on ricin using fluorescence correlation spectroscopy
- Statistical analysis of experimental data

Intern (March 2003 - August 2003)

MASSACHUSETTS STATE POLICE CRIME LABORATORY - Sudbury, MA

- Assisted in the gathering of case files to fulfill the National Institute of Justice's No Suspect Backlog Reduction Grant
- Observed in the Evidence, Criminalistics, DNA, Drug, Trace, Toxicology, and Bomb/Arson Units



DRUG RECEIPT

CC # _____
BOOK # 59
PAGE # 114
DESTRUCTION # _____

District/Unit A-1, AKO ID

Name & Rank of Arresting Officer Connally /wozniak ID# 11374 / 86206

To be completed by ECU personnel only

Name and Rank of Submitting Officer

ID# 9370

Received by

Date 4-7-09

ECU Control

No. [REDACTED]

Date Analyzed:

2/16/09

City: Boston D.C.U. Police Dept.

Officer: P.O. Diana Lopez

Def: [REDACTED]

Subst: SUB

Amount:

No. Cont: 1 Cont: pb

Date Rec'd: 04/07/2009

No. Analyzed:

Gross Wt.: 2.27 ✓

Net Weight: 0.27g

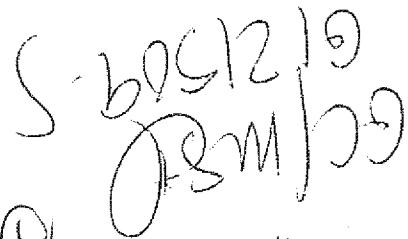
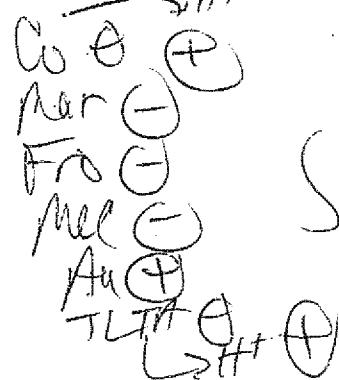
Prelim:

Cocaine K
Findings:

Tests: 1
Cocaine

$$(\rho_{\text{bulk}}/\rho_{\text{sat}}) \text{ gross} = 0.4059$$

$$\text{net} = 0.2752$$



12-16-09

DRUG POWDER ANALYSIS FORM

SAMPLE # [REDACTED]

AGENCY Boston

ANALYST MRC

No. of samples tested: [REDACTED]

Evidence Wt.

2.27

PHYSICAL DESCRIPTION:

1 pb w/8w

Gross Wt (): 0.4059

Gross Wt (): _____

Pkg. Wt: _____

Net Wt: 0.2752

0.4059 = 2334 12-12-09

20g = 20,000g

10g = 10,000g

5g = 5,000g

1g = 1,000g

PRELIMINARY TESTS

Spot Tests

Cobalt Thiocyanate (+) 
Marquis (-) 
Froehde's (-) 
Mecke's (-) 

Microcrystalline Tests

Gold Chloride

(+) 

TLTA

(+)  (-) 

OTHER TESTS

PRELIMINARY TEST RESULTS

RESULTS _____

DATE _____

GC/MS CONFIRMATORY TEST

RESULTS Clean

MS OPERATOR KAC

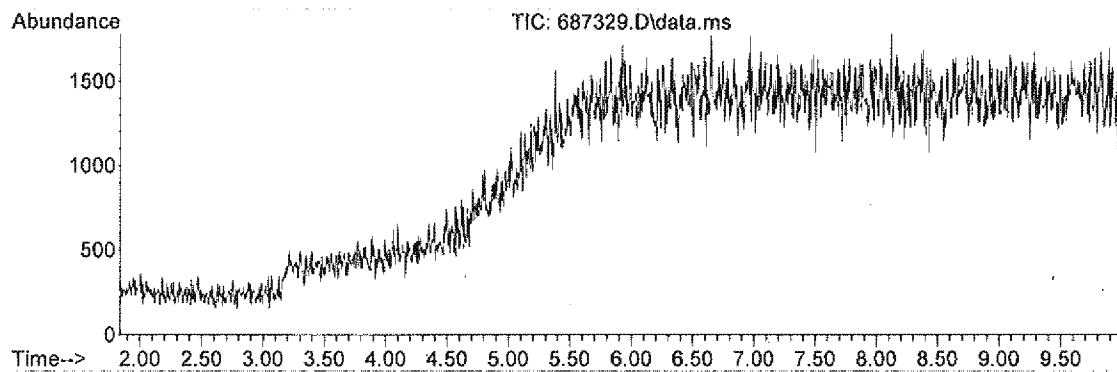
DATE

12-16-09

✓KAC
3/9/11

Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12_15_09\687329.D
Operator : KAC
Date Acquired : 15 Dec 2009 15:03
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

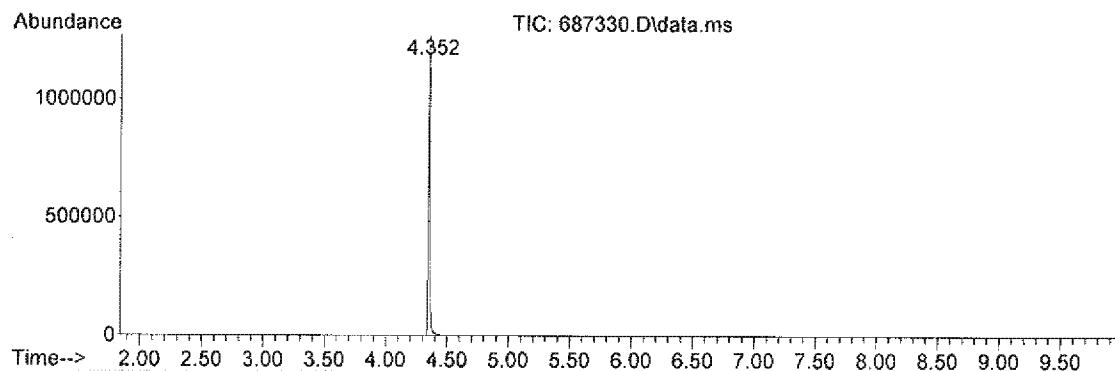


| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

NO INTEGRATED PEAKS

Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12_15_09\687330.D
Operator : KAC
Date Acquired : 15 Dec 2009 15:16
Sample Name : COCAINE STD
Submitted by :
Vial Number : 30
AcquisitionMeth: DRUGS.M
Integrator : RTE



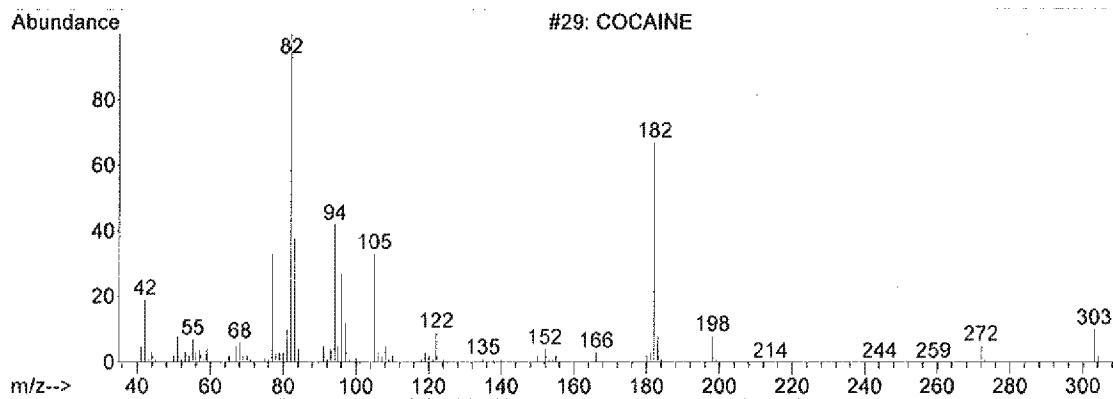
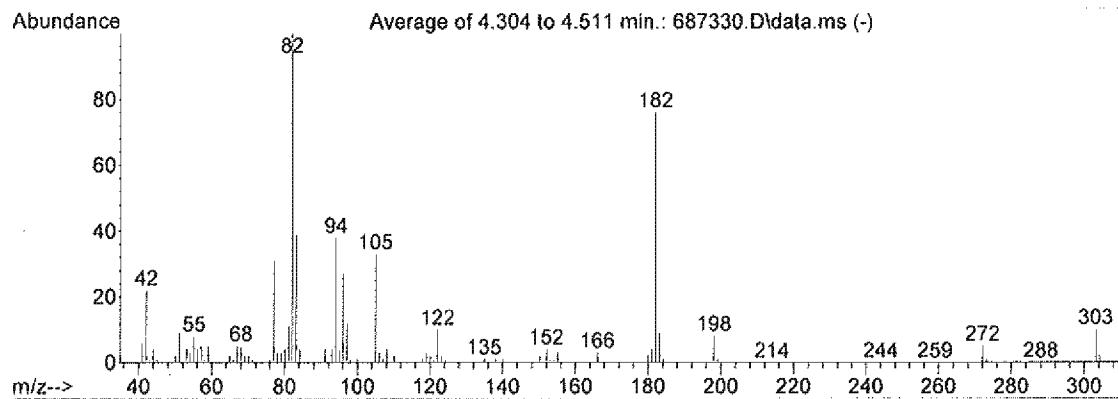
| Ret. Time | Area | Area % | Ratio % |
|-----------|---------|--------|---------|
| 4.352 | 1178487 | 100.00 | 100.00 |

Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12_15_09\687330.D
Operator : KAC
Date Acquired : 15 Dec 2009 15:16
Sample Name : COCAINE STD
Submitted by :
Vial Number : 30
AcquisitionMeth: DRUGS.M
Integrator : RTE

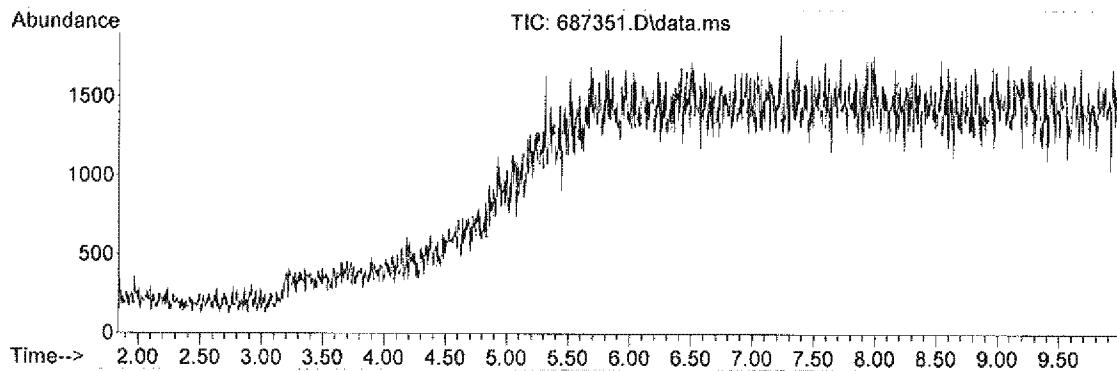
Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|------------------------------|-------------|------|
| 1 | 4.35 | C:\Database\SLI.L COCAINE | 000050-36-2 | 99 |



Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12_15_09\687351.D
Operator : KAC
Date Acquired : 15 Dec 2009 19:41
Sample Name : BLANK
Submitted by : MGL
Vial Number : 2
AcquisitionMeth: DRUGS.M
Integrator : RTE

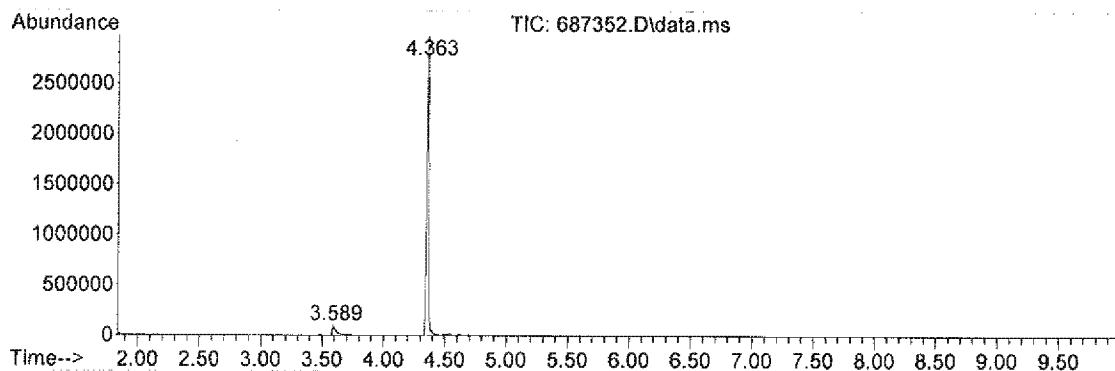


| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

NO INTEGRATED PEAKS

Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12_15_09\687352.D
Operator : KAC
Date Acquired : 15 Dec 2009 19:54
Sample Name : XXXXXXXXXX
Submitted by : MGL
Vial Number : 52
AcquisitionMeth: DRUGS.M
Integrator : RTE



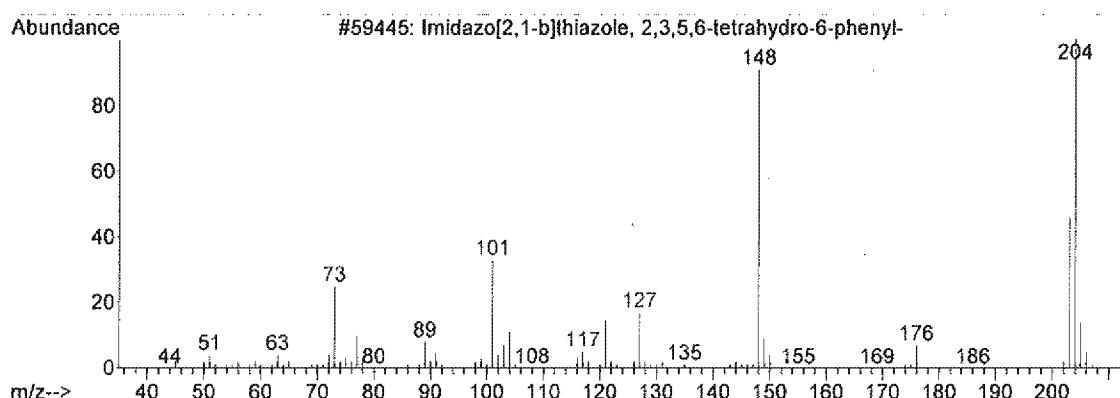
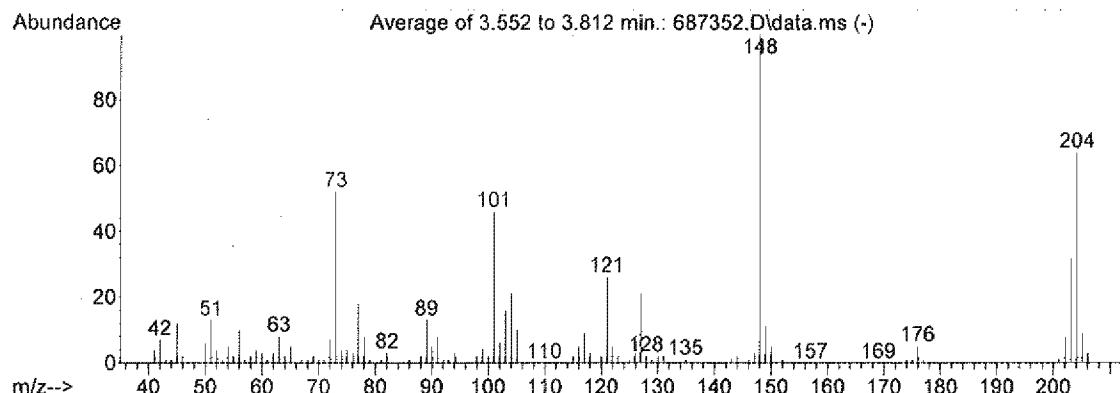
| Ret. Time | Area | Area % | Ratio % |
|-----------|---------|--------|---------|
| 3.589 | 236602 | 6.09 | 6.49 |
| 4.363 | 3645754 | 93.91 | 100.00 |

Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12_15_09\687352.D
Operator : KAC
Date Acquired : 15 Dec 2009 19:54
Sample Name : XXXXXXXXXX
Submitted by : MGL
Vial Number : 52
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|-------------------------------------|-------------|------|
| 1 | 3.59 | C:\Database\NIST05a.L | | |
| | | Imidazo[2,1-b]thiazole, 2,3,5,6-tet | 006649-23-6 | 98 |
| | | Imidazo[2,1-b]thiazole, 2,3,5,6-tet | 014769-73-4 | 98 |
| | | Imidazo[2,1-b]thiazole, 2,3,5,6-tet | 006649-23-6 | 98 |

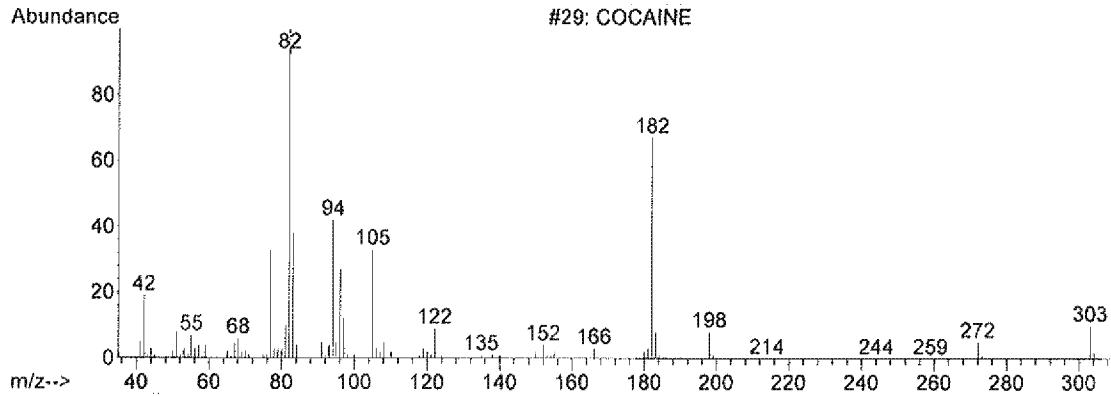
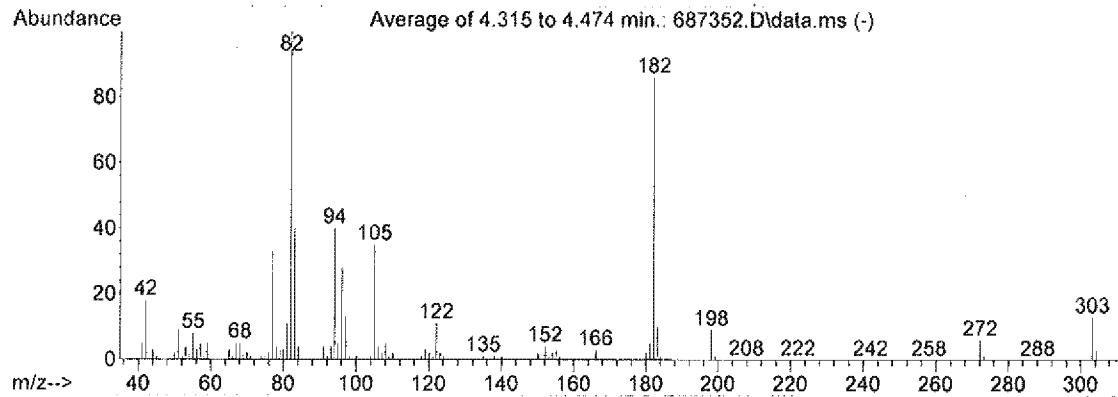


Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12_15_09\687352.D
Operator : KAC
Date Acquired : 15 Dec 2009 19:54
Sample Name : XXXXXXXXXX
Submitted by : MGL
Vial Number : 52
AcquisitionMeth: DRUGS.M
Integrator : RTE

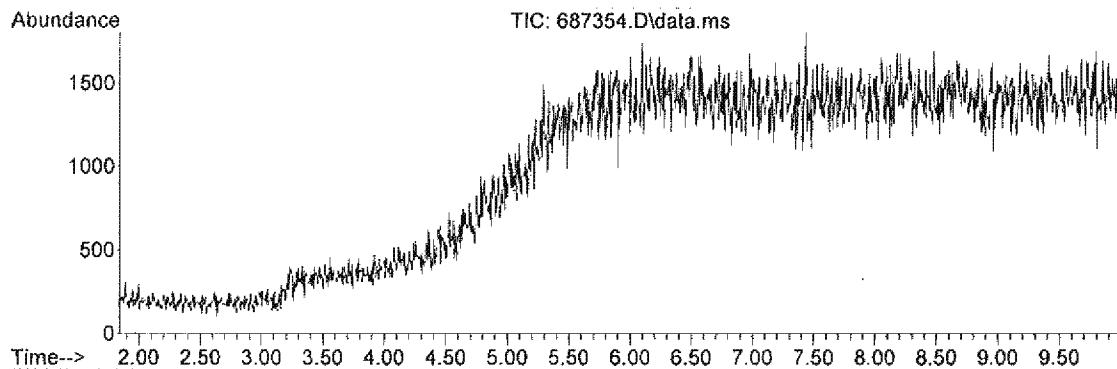
Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|------------------------------|-------------|------|
| 2 | 4.36 | C:\Database\SLI.L COCAINE | 000050-36-2 | 99 |



Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12_15_09\687354.D
Operator : KAC
Date Acquired : 15 Dec 2009 20:19
Sample Name : BLANK
Submitted by :
Vial Number : 2
AcquisitionMeth: DRUGS.M
Integrator : RTE

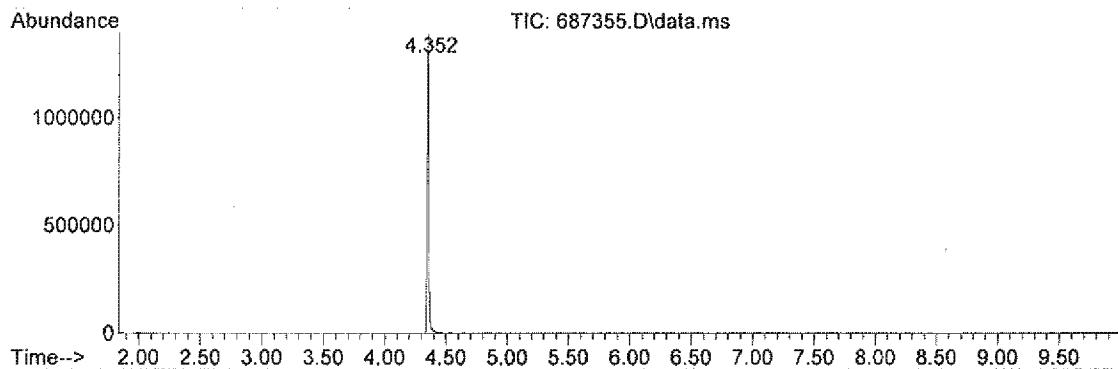


| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

NO INTEGRATED PEAKS

Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12_15_09\687355.D
Operator : KAC
Date Acquired : 15 Dec 2009 20:32
Sample Name : COCAINE STD
Submitted by :
Vial Number : 55
AcquisitionMeth: DRUGS.M
Integrator : RTE



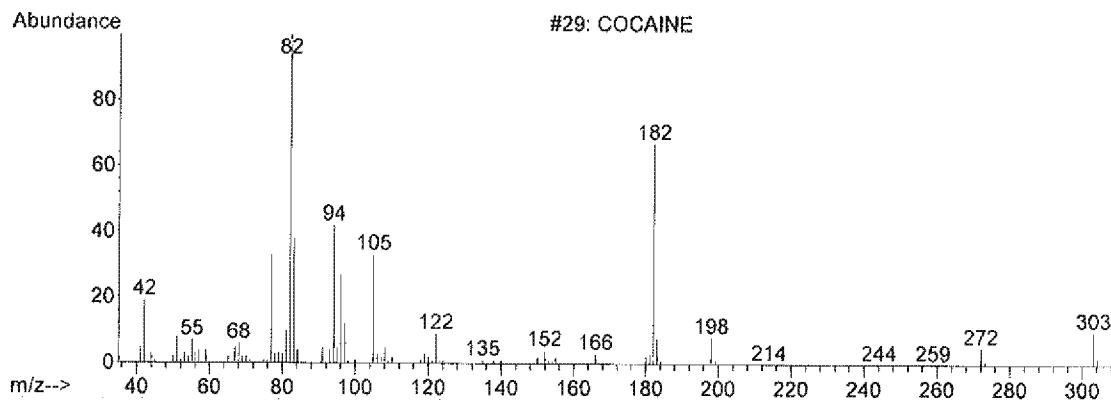
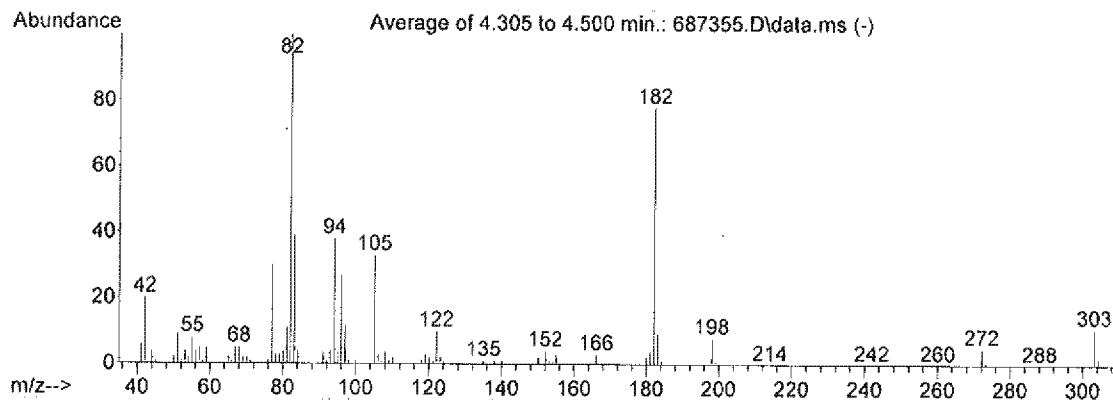
| Ret. Time | Area | Area % | Ratio % |
|-----------|---------|--------|---------|
| 4.352 | 1310313 | 100.00 | 100.00 |

Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12_15_09\687355.D
Operator : KAC
Date Acquired : 15 Dec 2009 20:32
Sample Name : COCAINE STD
Submitted by :
Vial Number : 55
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|------------------------------|-------------|------|
| 1 | 4.35 | C:\Database\SLI.L COCAINE | 000050-36-2 | 99 |



Last page..... ...no further data